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BULLETIN
OF
WASHINGTON UNIVERSITY
SAINT LOUIS



SUPPLEMENTARY ANNOUNCEMENT

OF

UNIVERSITY COLLEGE

JANUARY 10, 1933

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UNIVERSITY OF ILLINOIS

Evening and Afternoon Courses

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XXXI NUMBER II

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CALENDAR OF UNIVERSITY COLLEGE

Second Semester, 1932-33

1933

- January 16. Monday, to January 27, Friday, registration for second semester evening courses, 9 to 5 and 7:15 to 9:30. January 28, Saturday, 9 to 5.
- January 23. Monday, to January 27, Friday, registration for second semester for full-time day students, 9 to 5.
- January 28. All students registered in the first semester must provide for their second semester registration by this date or be subject to a \$2.00 late fee. (See page 6.) New students are not charged this fee.
- January 30. Monday. Second semester classes begin.
- February 22. Wednesday. Holiday, Washington's Birthday.
- April 14. Friday, and April 15, Saturday, Easter holidays.
- May 12. Friday. Class work in evening courses ends.
- May 15. Monday, to May 20, Saturday, inclusive, examinations in evening courses.
- May 24. Wednesday. Class work in full-time day courses ends.
- May 25. Thursday, to June 2, Friday, examinations for full-time day students.

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Annette V. Stevens. Secretary

Evening Courses

University College issues this supplementary announcement of courses for the second semester chiefly for the information of new students who wish to discover what courses are open to them at this time of the year. An effort is being made to provide a larger selection of courses for new students. It is realized that many who desired to enrol in the fall but were for a variety of reasons unable to do so may find it possible to begin their work now. Several first semester courses are therefore being repeated in the second semester, and several courses which began in the fall are being offered on a twice-a-week basis during the second semester.

This catalogue includes a certain amount of information concerning the general organization and purpose of University College. Not only are these courses intended for adults desiring to round out some special phase of their education or to fit some particular business need, but they may be so selected as to lead over a period of years to certificates and degrees. Concerning these courses, please see information in the succeeding pages, or write to the Dean of University College.

The general rules and regulations have been abbreviated as much as possible in order to conserve space. Students are advised, therefore, to obtain full information from the office of University College on any doubtful points. Only enough information is given to indicate the main requirements.

REGISTRATION

The regular period set for registration for the second semester is Monday, January 16, to Friday, January 27, 1933, 7:15-9:30 p. m.; Saturday, January 28, 1933, 2-5 p. m. Students will register in Room 126, Brookings Hall, the office of University College. Students desiring to register before that time may do so between the hours of 9 a. m. and 5 p. m., any day but Saturday, when the office closes at 12:30 p. m., or any evening except Saturday, between the hours of 7:15 and 8:15.

No registration is regarded as complete until the student has paid his tuition and other fees. These fees include:

- a. The University fee of \$3.00 per semester.
- b. Tuition fees, which will be found in the description of each course.
- c. Laboratory deposits and fees.

Students are required to pay at the time of registration the University fee of \$3.00, all laboratory deposits and fees, and not less than \$5.00 of the course fees. This latter payment will be considered a partial payment on the course fees, provided the remainder is paid on or before February 15, 1933.

Additional fees for candidates for degrees are:

1. A matriculation fee of \$10.00, payable in advance.
2. A diploma fee of \$3.00, payable one month before graduation.
3. A moderate charge for proficiency tests or comprehensive examinations, where these are required.

Late Registration Fee. The purpose of the late fee is to ensure the uninterrupted continuation of full-year courses, especially those in which first semester registration is close to the minimum requirement. Its purpose is not for revenue nor as a hardship to students. Consequently for this year (1933) students who find it impossible to pay a part or all of their fees by January 28, 1933, may be excused from a late fee PROVIDED THAT they fill out and turn in their registration card not later than January 28, 1933, as bona fide evidence of their intention to continue in their courses. Partial or complete payment must, however, be made on or before February 2, 1933. Such cooperation will assure the administration of proper procedure in all courses and will give the student the fullest possible opportunity to continue his work under favorable financial conditions.

Students not registered in the first semester 1932-33 will not be charged a late fee.

THE FUNCTIONS OF UNIVERSITY COLLEGE

The functions of University College are twofold:

I. To administer certain curricula leading to professional degrees, and for this purpose to coordinate or supplement the work offered by the already established schools of the University. By action of the Corporation of the University the Administrative Board of University College has been authorized to administer the curricula leading to the following degrees and to recommend to the Corporation for these degrees candidates who have satisfied all the requirements:

- 1) Bachelor of Science in Education:
 - a) For Teachers in the Elementary Schools.
 - b) For Teachers in the Secondary Schools.
 - c) For Teachers of Commercial Subjects.
- 2) Bachelor of Science in Special Education:
 - a) For Teachers of the Deaf.
 - b) For Teachers and Supervisors of Art.
- 3) Bachelor of Science in Journalism.

As the administration of these degrees forms a special province of University College, details concerning the requirements for admission, for graduation, and the curricula leading to the various degrees are more fully published in a separate bulletin of University College which may be obtained by addressing the Dean of University College.

II. To administer courses for part-time adult students employed during the day. These courses are offered in the evening, late afternoon, and on Saturday morning. This service was formerly carried on by the Division of University Extension, but has now been placed under the jurisdiction of University College. Acting as a coordinator for the work of the various schools, University College conducts these courses along the same general lines but with greater opportunity for academic recognition.

INFORMATION FOR STUDENTS DESIRING TO BEGIN THEIR WORK IN THE SECOND SEMESTER

Each year many students, who were not registered in the first semester, indicate their wish to begin work in the middle of the year. It is possible and feasible to do this if the student will confer in advance with the Dean of University College, sending in advance or bringing with him transcripts indicating all education previously completed. This applies to all students who desire credit for their work, particularly if they expect to use such credit toward a certificate or degree in Washington University. Guidance and suggestion will be gladly given to all who are in any way in doubt concerning the correct procedure.

1) Courses for *Graduate* credit

Graduates from recognized colleges are permitted to take certain courses in University College for which graduate credit may be granted to an aggregate not to exceed 8 units. Courses which carry graduate credit are designated by the Roman numeral VI in the description of the courses. The eligibility of students for graduate credit in courses of this type must be passed upon in the usual manner by the officers of the School of Graduate Studies and by the head of the department in which the student wishes to major.

2) Degrees Conferred by *University College*

- a) Bachelor of Science in Education.
- b) Bachelor of Science in Journalism.

University College confers the degree of Bachelor of Science in Education (for Elementary School Teachers, for Secondary School Teachers, for Teachers of Commercial Subjects, for Teachers of the Deaf, for Teachers of Art) and the degree of Bachelor of Science in Journalism, upon such students as have completed definitely outlined curricula prepared for these classifications.

For full-time students the first two years, or pre-professional courses, of these curricula may be completed in the College of Liberal Arts, while the professional work is directly under the supervision of University College, in cooperation with the School of

Business and Public Administration, the School of Fine Arts, the School of Architecture, and the Central Institute for the Deaf.

For part-time students the work may be done entirely under the direction of University College, though in certain cases it may be necessary to complete a portion of the work in the Summer Session or even, in rare instances, in the regular day classes of the College of Liberal Arts.

Complete information is available in a special bulletin (No. 1) which may be had on application to the Dean of University College. Opportunity for personal interview with the Dean is extended to all whose problems are such as to require careful examination and consultation.

3) Courses for Credit in the *College of Liberal Arts*

Students who desire to take part of the prescribed work of the Freshman Year in the College of Liberal Arts are referred to the following list for courses open to them:

N 6-2.	Mechanical Drafting	N 16-1B.	History of Western Europe, Part II
N 7-1B.	Economic History of the United States	N 17-2.	General History of Art
N 7-2A.	Economics, Part I	N 19-2.	Latin, Part I
N 7-2B.	Economics, Part II	N 19-4.	Latin, Part II
N 7-2C.	Economics, Part III	N 19-6.	Latin, Part III
N 11-1.	Composition and Rhetoric	N 20-1A.	College Algebra
N 12-2.	French, Part I	N 20-3A.	Trigonometry
N 12-4.	French, Part II	N 20-5A.	Analytic Geometry
N 12-6.	French, Part III	N 27-2.	Spanish, Part I
N 14-2.	German, Part I	N 27-4.	Spanish, Part II
N 14-4.	German, Part II	N 27-6.	Spanish, Part III
		A 12-2.	Elementary French

Sophomore courses should be selected with the help of the Dean. Such selection is dependent on the student's previous courses.

The opportunity to begin work is not restricted to those who are ultimately to become candidates for the degree of Bachelor of Arts in the College of Liberal Arts, but is offered to those who are interested in the pre-professional courses, leading to degrees in Business, Social Work, Law, Nursing, Medicine, Journalism, Education.

4) Courses for Credit in the *Schools of Engineering and Architecture*

Freshman year:

The Freshman Year in the Schools of Engineering and Architecture includes the following courses, which are offered in University College in the evening in the second semester:

English, N 11-1	Analytic Geometry, N 20-5A,
Algebra and Trigonometry, N 20-6E	
N 20-1E and N 20-3E	Chemistry, N 5-2, 4, 12

Sophomore Year:

Other courses offered in the evening in University College may be applied for credit in the Schools of Engineering and Architecture, but the various curricula of those schools are so diverse that each student must arrange in advance for such credit with the Dean of those schools.

Information concerning architectural courses may be had upon request to the office of University College.

5) Courses for Credit in the *School of Business and Public Administration*

Students who have completed 60 units of accredited college work, including at least 6 units in Economics, may take the courses of the Junior Year in the evening classes of University College. At present only a portion of some of these courses is announced, but additional provision will be made as demanded by increasing needs. It is requested that those interested consult either with the Dean of the School of Business and Public Administration or with the Dean of University College.

6) Certificates in *University College*

University College offers for properly qualified students certificates in certain special fields upon the completion of definitely outlined curricula. The list of courses required in each curriculum may be had upon request from the office of University College.

Registration is open to new students at this time, and proper adjustment of the curriculum to the student's previous training will be made individually so far as that training and the requirements prescribed for the certificate will permit.

The following is a list of these certificates, with a brief indication of the content of each. High school graduation is required for full admission. An average grade of "C" must be maintained by the student.

a) Junior Collegiate Certificate.

Granted to students upon completion of 60 units of college work arranged in conformity with the first two years of the A. B. curriculum or one of the pre-professional curricula of the College of Liberal Arts.

b) Certificate in General Business.

A three-year course planned to give students a well-rounded and adequate understanding of the elements of business.

c) Certificate in Accounting.

For students desiring to become expert accountants or public accountants, and to prepare them for state examinations for the degree of Certified Public Accountant.

d) Certificate in Advertising.

A curriculum offered under the joint auspices of University College and the Educational Committee of the Advertising Club of Saint Louis.

e) Certificate in Real Estate.

A curriculum intended for office men and salesmen in real estate offices, as well as for property owners desiring an understanding of the principles and practices fundamental to property management.

f) Certificate in Sales Management.

A curriculum for salesmen looking toward sales management.

g) Certificate in Secretarial Studies.

For students desiring to prepare themselves for the duties involved in taking care of the office of a business executive.

h) Certificate in Interior Decoration.

A curriculum planned for those desirous of becoming interior decorators or those wishing to fit themselves for executive positions in this field.

i) Certificate in Architectural Draftsmanship.

For students desiring to pursue the study of architecture but who are unable to take advantage of the full day curriculum.

j) Certificate in Structural Design.

To serve the needs of those engaged in practical construction work whose advancement is limited by lack of sufficient training.

k) Certificate in Electrical Engineering.

To serve the needs of those students who desire a broad theoretical knowledge of electrical engineering but are unable to take advantage of the complete day courses.

l) Certificate in (A) Heat Engineering.

(B) Machine Design.

Curricula for those desiring training either in the theory of heat engineering or in the mathematical and engineering fundamentals needed by the machine designer.

7) *Pre-College Courses:*

Students who desire to complete high school requirements may at this time enrol in any of the following courses, provided they have the necessary qualifications:

N 6-2.	Mechanical Drafting	N 19-6.	Latin, Part III
N 11-B2.	English Fundamentals	N 20-A1.	Beginning Algebra
N 11-C2.	Types of Modern Literature	N 20-B.	Continuation Algebra
N 12-2.	French, Part I	N 20-D1.	Solid Geometry
N 12-4.	French, Part II	N 20-F1.	Plane Geometry
N 12-6.	French, Part III	N 20-3A.	Trigonometry
N 14-2.	German, Part I	N 27-2.	Spanish, Part I
N 14-4.	German, Part II	N 27-4.	Spanish, Part II
N 19-2.	Latin, Part I	N 27-6.	Spanish, Part III
N 19-4.	Latin, Part II	A 12-2.	Elementary French

Courses of Instruction

The following three types of courses are offered by University College during the second semester.

1. Many courses began in the first semester and are now continuing. Wherever it is possible for new students to be admitted, this is indicated in the description. Usually such admission is based upon the consent of the instructor and is determined by the amount of preparation and experience a student has previously had in the same field.

2. Other courses running throughout the year are not open to new students, and are so indicated.

3. Finally, certain courses have no first semester preceding them but begin at this time. Such courses are marked with an asterisk (*). Wherever special prerequisites are essential, these are stated in the description.

Tuition, credit, course numbers apply to the *second semester only*.

The Roman numeral after the word "Credit" indicates the school of the University in which credit may be applied.

- I. The College of Liberal Arts.
- II. The School of Engineering.
- III. The School of Architecture.
- IV. The School of Business and Public Administration.
- VI. The School of Graduate Studies.
- X. The School of Nursing.
- XI. The School of Fine Arts.
- XII. University College: Credit for degrees and for Junior Collegiate Certificate.
- XIIA. University College: Credit for special certificates in various curricula.
- XIIB. Courses so designated are of a miscellaneous nature and are in the main given for special groups of adults or to satisfy special informal needs.
- E. Entrance credit only, indicated in entrance units.

ACCOUNTING

A list of the courses required for the Certificate in Accounting may be had upon application to the office of University College.

N 45-2. Principles of Accounting. Mr. Engel and Mr. Trumbo

7:45-9:30. Wednesday and Thursday. Rooms 107 and B-2, Duncker Hall. Credit IV, XII, XIIA, 4 units. \$30.00.

Partnerships, corporations, controlling accounts, advanced books of record. Open to new students upon consent of the instructor.

***N 45-1A. Principles of Accounting.** Mr. Engel and Mr. Trumbo

7:45-9:30. Monday and Tuesday. Room B-2, Duncker Hall. Second semester. Credit IV, XII, XIIA, 4 units. \$30.00.

This course is the equivalent of the first semester of N 45-1, 2. Students entering this course in the second semester may take Applied Theory of Accounts the following year, and may complete the credit in Principles of Accounting by electing N 45-2 the second semester of the following year.

N 45-6. Applied Theory of Accounts. Professor Krebs

7:45-9:30. Tuesday. Room 208, Duncker Hall. Credit XIIA, 2 units. \$15.00.

Valuation of assets, liabilities, capital stock, surplus, reserves, sinking funds, depreciation. Prerequisite, N 45-1, 2. Open to new students in the second semester upon consent of the instructor.

N 45-8. Advanced General Accounting. Mr. Smith

7:45-9:30. Thursday. Room 106, Duncker Hall. Credit XIIA, 2 units. \$15.00.

Holding companies, consolidated statements, inter-company profits, branches, source and application of funds, instalment sales, co-insurance, etc. Prerequisite N 45-1, 2, or its equivalent. Open to new students upon consent of the instructor.

N 45-10. Accounting Systems. Mr. Aumock

7:45-9:30. Thursday. Room 101, Duncker Hall. Credit XIIA, 2 units. \$15.00.

Design and installation of cost and accounting systems for various commercial organizations. Prerequisites, N 45-5, 6, and a thorough knowledge of internal check methods and control. Open to new students upon consent of the instructor.

N 45-12. Factory Cost Accounting. Associate Professor Marsh
7:45-9:30. Wednesday. Room 101, Duncker Hall. Credit XIIA,
2 units. \$15.00.

This course is not open to new students.

N 45-14. Auditing. Mr. Good
7:45-9:30. Tuesday. Room 106, Duncker Hall. Credit XIIA,
2 units. \$15.00.

General review of a balance sheet order; auditors' reports; auditing the books of a manufacturing company, which involves a discussion of practical accounting and financial questions as might arise when the accounts are finally reviewed with the client. New students working for credit must pass a written examination before permission to enrol will be granted.

N 45-16. C. P. A. Review. Mr. Mayors
7:45-9:30. Monday. Room 106, Duncker Hall. Credit XIIA,
2 units. \$15.00.

A study of types of examinations given by accounting examining boards in the various states; solution and discussion of problems which have been given in the state examinations. Open to those who have had previous study or practical knowledge sufficient to enter in the middle of the year.

***N 45-20. Income Taxes and Income Tax Accounting Problems.**
Mr. Arthur
7:45-9:30. Monday. Room 101, Duncker Hall. Credit XIIA,
2 units. \$15.00.

A brief survey of State and Federal Income Tax legislation; detailed study of Missouri and Federal Income Tax laws and regulations; special emphasis on the analysis and solution of practical problems.

ADVERTISING

A list of the courses required for the Certificate in Advertising may be had upon application to the office of University College.

N 46-2. Principles of Advertising. Mr. Nix
7:45-9:30. Monday. Room 230, Brookings Hall. Credit XIIA,
2 units. \$15.00.

This course is open to new students upon consent of the instructor. Such students should possess some practical knowledge of advertising.

N 46-4. Advertising Copy Writing.

Mr. Harrison

7:45-9:30. Wednesday. Room 106, Brookings Hall. Credit XIIA, 2 units. \$15.00.

The planning and execution of one or more complete advertising campaigns, embracing all the commonly-used media, with emphasis upon clear, idiomatic English and suitability of copy-style to medium and reader or audience. Prerequisite, N 46-1, or its equivalent.

N 46-8. Retail Advertising.

Mr. Carter

7:45-9:30. Thursday. Room A, January Hall. Credit XIIA, 2 units. \$15.00.

Intensive study of successful advertisers and actual practice in preparation of advertisements; building of personal files; sources of ideas and information. Prerequisite, N 46-1, or N 46-3, or the equivalent. Some practical knowledge in advertising is desirable.

ARCHITECTURE

During the present year the evening courses in Architecture have been transferred from the Saint Louis Architectural Club to Givens Hall on the campus of Washington University. Registration for these courses may be made during the regular registration dates listed on page 5 of this catalogue.

Students desiring to enter **Architectural Drawing, Elementary, Intermediate, or Advanced Design, or Free-hand Drawing** should consult with the instructors in charge of these courses. Detailed information as to when and where these instructors may be consulted will be furnished upon request to the office of University College.

A list of the courses required for the Certificate in Architectural Draftsmanship may be obtained upon request from the office of University College.

***N 55-2. Perspective.**

Professor Hill

7:30-8:30. Monday. Room 116, Givens Hall. Credit XIIA, 1 unit.

The delineation in perspective of buildings from the geometrical projections.

N 55-24. Contemporary Architecture.

Professor Hill

8:00-9:30. Friday. Room 116, Givens Hall. Credit XIIB, 2 units. \$12.50.

A study of the current tendencies in Architecture; their sources, aims, problems and accomplishments.

The following course was omitted from the offerings of the first semester because of the problems incident to transferring the courses in Architecture from the rooms of the Saint Louis Architectural Club to Givens Hall. To provide students an opportunity to complete the four units of Architectural Construction I, the course is scheduled for two meetings each week.

***N 55-16. Architectural Construction I.** Associate Professor Fitch

7:45-9:30. Tuesday and Thursday. Room 8, Givens Hall. Credit XIIA, 4 units. \$25.00.

Elementary construction, including the uses of different materials of construction, together with simple construction detailing. Also a simplified discussion of the methods of specifying these materials. Not given for less than ten students.

ART

Students interested in the degree of Bachelor of Science in Education for Teachers of Art may obtain full information by applying to the office of University College. To facilitate such consultation students should send transcripts of credits for work previously completed to the Dean of University College well in advance of their personal interview.

N 17-2. General History of Art.

Miss Chamberlain

7:45-9:30. Thursday. 106 Givens Hall. Credit I, XII, 2 units. \$12.50.

A survey of the history of art from the Early Christian period through the Italian Renaissance.

A 17-7. Public School Art.

Miss Flinn

4:00-6:00. Thursday. Art School. Credit XII, 1½ units. \$10.00.

Students desiring to register at this time should consult the instructor.

Students may be admitted to the second semester of the following courses if after consultation with the instructors in charge their qualifications are found to be adequate.

N 17-8. Free-hand Drawing (Elementary). Mr. Conway
7:30-9:30. Thursday and Friday. Art School. Credit, I, III, XI, XII, 1½ units. \$25.00.

N 17-10. Free-hand Drawing (Advanced). Mr. Conway
7:30-9:30. Thursday and Friday. Art School. Credit, I, III, XI, XII, 1½ units. \$25.00.

N 17-12. Elementary Design. Mrs. Wright
7:30-9:30. Tuesday and Wednesday. Art School. Credit I, XI, XII, 1½ units. \$25.00.

N 17-14. Advanced Design. Mrs. Wright
7:30-9:30. Tuesday and Wednesday. Art School. Credit I, XI, XII, 1½ units. \$25.00.

N 17-22. Life Class. Mr. Goetsch
7:30-9:30. Thursday and Friday. Art School. Credit III, XI, XII¹, 1½ units. \$27.00.

N 17-24. Figure Sculpture. Mr. Victor Holm
7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII, 1½ units. \$27.00.

N 17-26. Ornamental Sculpture. Mr. Victor Holm
7:30-9:30. Tuesday and Wednesday. Art School. Credit III, XI, XII, 1½ units. \$27.00.

N 17-28. Commercial Design. Mr. Nicholson
7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII¹, 1½ units. \$27.00.

¹ These courses may be counted toward the elective in the Senior Year of the curriculum for the degree of Bachelor of Science in Education for Teachers of Art.

N 17-30. Drawing for Illustration.

Mr. Carpenter

7:30-9:30. Tuesday and Wednesday. Art School. Credit XI, XII¹, 1½ units. \$27.00.

N 17-32. Fashion Illustration.

Miss Recht

7:30-9:30. Thursday. Art School. Credit XI, XII¹, 1½ units. \$17.00.

ASTRONOMY**N 3-6. Descriptive Astronomy.**

Assistant Professor Stephens

7:45-9:30. Monday. Room 201, Brookings Hall. Credit XII, 2 units. \$12.50.

A non-mathematical exposition of the facts and theories concerning the stars and nebulae and the structure of the stellar universe. Constellation study. Frequent use of the six-inch equatorial telescope and of lantern slides. Open to new students in the second semester.

BOTANY**N 4-2. Principles of Plant Life I.**

Associate Professor Reynolds

7:30-10:15. Thursday. Room 205, Rebstock Hall. Credit I, XII, 1½ units. \$15.00.²

The stem structure and functions; foods of plants and their recognition in the laboratory; respiration; growth processes and reaction to stimuli; the relationships of the plant to its environment. New students must consult the instructor before registering.

BUSINESS

Other courses relating to the field of business may be found under the heads of Accounting, Advertising, Economics, English, Geography, Mathematics, Psychology, Public Speaking, Real Estate, and Salesmanship.

I. BUSINESS COURSES FOR DEGREE CREDIT

The following courses, which parallel in part the required studies of the Junior Year in the School of Business and Public Administration, are open for credit toward the degree of that School to students having 60 units in standard college courses, including a

¹ See foot-note 1 on page 18.

² Laboratory fee, \$2.00.

full year in economics. Students desiring to enrol in these courses and to obtain credit toward a degree must present a transcript of their credentials and receive the approval of the Dean of University College before completing their registration.

Fuller information concerning these courses and their relation to the degree of the School of Business and Public Administration may be had upon application to the office of University College.

N 7-20. History and Problems of Labor.

Assistant Professor Fletcher

For description of this course, see page 24.

***N 7-40. Financial Institutions and Business Finance, Part II.**

Associate Professor Cable

For description of this course, see page 24.

***N 44-50. The Law of Business, Part II.**

Associate Professor Bennett

7:45-9:30. Thursday. Room 207, Duncker Hall. Credit IV, 2 units. \$15.00.

Agency and negotiable instruments: source and scope; agent's power; relations of principal, agent, and third parties; termination of relation of agency; the law of note, check, draft, bill of exchange, warehouse receipt, bill of lading.

***N 44-51. The Law of Business, Part III.**

Associate Professor Bennett

7:45-9:30. Wednesday. Room C, January Hall. Credit IV, 2 units. \$15.00.

Sales, partnership, and corporations: transfer of title; rights of innocent purchasers; bulk sales law; warranties; formation of partnership and corporation; liabilities of partners and stockholders; contracts of promoters; corporate powers; rights of creditors.

2. SPECIAL COURSES IN BUSINESS

***N 44-9. Income Taxes—Practical Problems.**

Mr. Arthur

7:45-9:30. Tuesday. Room 207, Duncker Hall. Seven lectures. January 10 to February 21, inclusive. Credit XIIB, 1 unit. \$7.00.

A rapid survey of income tax laws with special attention given to the recent changes in the Missouri State Income Tax and changes in the Federal Income Tax resulting from new rulings and court decisions.

Returns will be prepared for individuals, partnerships, fiduciaries, and corporations, including the solution of illustrative problems covering gross income

inclusions and exclusions, deductions, exemptions, and credit. Special attention will be given to stock dividends, stock rights, reorganizations, exchanges, installment sales, involuntary conversions, depreciation, capital net gains, capital net losses, and business net losses.

***N 44-12. Office Technique and Practice.** Mr. Lamke

7:45-9:30. Tuesday. Room 221, Brookings Hall. Credit XIA, 2 units. \$15.00.

Filing and indexing, office equipment and devices, the business letter, tabulation and graphical representation of data, and proof-reading will be discussed.

***N 44-16. Investment Securities.** Associate Professor Cable

7:45-9:30. Monday. Room 208, Duncker Hall. Credit XIA, 2 units. \$15.00.

The theory and mathematics of investment; the work of bond houses, underwriting syndicates, and stock exchanges in the distribution of securities; real estate bonds and mortgages; the bonds of federal, state, and local governments; the stocks and bonds of railroad, public utility, industrial, and mining companies; causes of the cycle of security prices and the value of business barometers.

N 44-22. Merchandising and Systems of Distribution.

Associate Professor Klamon

7:45-9:30. Thursday. Room 208, Duncker Hall. Credit XIA, 2 units. \$15.00.

A study of problems relating to marketing methods and selling policies: transportation; finance; brokers; organized produce and stock exchanges; wholesale dealers and jobbers; department store and chain store systems; purchasing and stock turnover; price maintenance; advertising, etc. Open to new students who have had business experience.

***N 44-32. Principles of Granting Credit.** Mr. Boettler

7:45-9:30. Thursday. Room 105, Duncker Hall. Credit XIA, 2 units. \$15.00.

An advanced course in the study of bank and commercial credit and the basis upon which credit policies should be formulated. The course will include practical methods for the presentation and interpretation of business statistics and an analysis of the forecasting system used by Brookmire, Babson, and the Harvard Committee on Economic Research.

***N 44-46. Business Selling Methods.** Associate Professor Klamon

7:45-9:30. Monday. Room 105, Duncker Hall. Credit XIIB, 2 units. \$15.00.

The course includes not only a study of selling policies and merchandising but also a rapid survey of the more important principles of business common

to all industrial and commercial enterprises: price maintenance and policies, sales quotas, brands, exclusive agency and service policies, merchandising costs and efficiency; policies relating to the functions of buying, selling, market finance, transportation; selling policies of a number of typical business organizations. Standard texts, such as Converse, *Selling Policies*, will be used.

CHEMISTRY

N 5-2. General Chemistry. Professor McMaster

7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII,
1½ units. \$15.00.¹

Not regularly open to new students in the second semester.

N 5-4. General Chemistry of the Metals. Professor McMaster

7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII,
1½ units. \$15.00.¹

Not regularly open to new students in the second semester.

N 5-12. Qualitative Analysis. Associate Professor Stout

7:15-10:15. Wednesday. Busch Hall. Credit I, II, III, XII,
1½ units. \$15.00.¹

Not regularly open to new students in the second semester.

N 5-22. Organic Chemistry. Assistant Professor Goldstein

7:45-9:30. Tuesday. Busch Hall. Credit I, XII, 2 units.
\$15.00.

Not regularly open to new students in the second semester.

***N 5-36. The Phase Rule, Chemical Equilibrium and Reaction Velocity.** Associate Professor Ward

7:45-9:30. Tuesday. Busch Hall. Credit I, VI,² XII, 2 units.
\$15.00.

The foundation of the phase rule and its application to a number of typical systems: the processes of fractional distillation, purification by crystallization; metallography. The factors governing chemical equilibrium and reaction velocity, especially the problems of catalysis. Prerequisites, Organic Chemistry and one year of College Physics.

¹ In addition a deposit of \$10.00 is required upon registration to cover materials and breakage. Unused balance is returned at the end of the course.

² In addition to the prerequisites stated, registrants must have had at least two years of acceptable college work.

***N 5-40. The Determination of Hydrogen Ions and Potentiometric Titrations.** Associate Professor Ball

7:45-9:30. Tuesday. Busch Hall. Credit I, II, III, XII, 2 units. \$15.00.

Lectures and demonstrations dealing with modern methods of determining hydrogen ion concentration; the theory underlying the various methods, and the use of different types of apparatus; the general theory of acid-base neutralization, the use of indicators for titrations and pH oxidation-reduction electrode systems, with special attention to the analytical applications of the subject. Prerequisite, Physical Chemistry.

DRAFTING

N 6-2. Mechanical Drafting. Associate Professor Siroky

7:15-10:15. Thursday. Room 105, Cupples Hall II. Credit II, III, XIA, 1½ units. \$15.00.

Instruction in this course is largely individual, and students may be admitted to the second semester upon the consent of the instructor. Prerequisite for credit, Solid Geometry.

ECONOMICS

(N 7-2A, B, and C are prerequisite to all advanced courses in Economics.)

***N 7-2A. Economics, Part I.** Associate Professor Bennett

7:45-9:30. Wednesday. Room 106, Duncker Hall. Credit I, XII, 2 units. \$15.00.

A brief survey of the economic development of the United States and of economic concepts; discussion of the economics of consumption, the laws of value, principles of price-making, monopoly and its effect upon social life; study of the questions of wages, interest, profit, and rent.

***N 7-2B. Economics, Part II.** Professor Lippincott

7:45-9:30. Monday. Room 107, Duncker Hall. Credit I, XII, 2 units. \$15.00.

The course includes a study of the organization of business; advantages and disadvantages in conducting enterprises under various forms; relation of government to business; banking organization and development; money problems; credit and its problems; various practical money and banking problems; international trade; trade policy.

***N 7-2C. Economics, Part III.** Professor Stephens

7:45-9:30. Tuesday. Room 107, Duncker Hall. Credit I, XII, 2 units. \$15.00.

A study of certain practical problems, such as labor relations, problems of agriculture, public revenue, systems of taxation, and public debt.

N 7-1B. Economic History of the United States.

Professor Lippincott

7:45-9:30. Wednesday. Room 208, Duncker Hall. Credit I, XII, 2 units. \$15.00.

A study of the development and problems of American industrial and social life, including such questions as taxation, international economic relations, business cycles, the distribution of wealth and welfare. Open to new students in the second semester.

***N 7-9A. Current Economic Problems.** Assistant Professor Sinclair

7:45-9:30. Wednesday. Room 105, Duncker Hall. Credit XII, 2 units. \$15.00.

A presentation of the setting of the more important contemporary economic problems, with class discussions of their implications. The topics will include the world business depression, over-production, unemployment, control of speculation, central banking policy, the future of the railroads, the future of international trade, tariff policy, war debts, relief of agriculture, and other subjects of general interest.

***N 7-18. Socialism and Social Reforms.** Professor Stephens

7:45-9:30. Wednesday. Room A, January Hall. Credit I, XII, 2 units. \$15.00.

A study of the history of the Socialistic Movement; an examination of its program and philosophy; a study of possible lines of social reform in the present order, including various forms of social and industrial insurance, rationalization of industry, and modification of several forms of taxation. Prerequisite, for credit, N 7-2A, B, C. This course is open also to mature persons as auditors.

N 7-20. History and Problems of Labor.

Assistant Professor Fletcher

7:45-9:30. Monday. Room B-3, Duncker Hall. Credit I, IV, VI,¹ XII, 2 units. \$15.00.

A study of the problems of industrial arbitration and labor management. Open to new students upon consent of the instructor.

***N 7-40. Financial Institutions and Business Finance, Part II.**

Associate Professor Cable

7:45-9:30. Wednesday. Room 207, Duncker Hall. Credit I, IV, VI,¹ XII, 2 units. \$15.00.

A study of the financial policies of corporations, including capital structure, methods of raising capital for long-term and short-term uses, financial reorganizations, and liquidations. Each student will be required to make a detailed study of a selected problem. Prerequisite, Financial Institutions and Business Finance, Part I, or its equivalent.

¹In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

EDUCATION**N 8-4. Educational Psychology.** Assistant Professor Gribble

7:45-9:30. Monday. Room 203, Brookings Hall. Credit I, XII, 2 units. \$12.50.

A study of the applications of psychology to problems of teaching. Prerequisite, Introduction to Education (N 8-3), or its equivalent. An additional half unit or unit of credit may be arranged upon application to the office of University College.

***N 8-A. Arithmetic for Teachers.** Assistant Professor Gribble

7:45-9:30. Wednesday. Room 223, Brookings Hall. Credit XII, 2 units. \$12.50.

The purposes of this course are: 1) to develop a mastery of the processes of arithmetic; 2) to integrate arithmetic through a consideration of principles; and 3) to consider ways in which the subject matter may be organized for, and taught to, immature pupils. Considerable attention will be given to methods of determining and overcoming individual deficiencies. Fee for materials, \$1.00. The course satisfies the State requirement of College Arithmetic.

N 8-8. Principles of Secondary Education.

Associate Professor Reals

7:45-9:30. Thursday. Room 203, Brookings Hall. Credit I, VI,¹ XII, 2 units. \$12.50.

The aims of the secondary school and the relation of the subjects to each of these aims; a brief treatment of extra-curricular activities. Prerequisite, N 8-4.

N 8-12. Principles of Teaching in the Secondary School.

Professor Wright

7:45-9:30. Wednesday. Room 209, Brookings Hall. Credit I, XII, 2 units. \$12.50.

New students wishing to work for credit in this course must register for three units and take an examination covering a minimum of the reading required during the first semester.

N 8-22. Introduction to Educational Tests and Measurements.

Associate Professor Lentz

7:45-9:30. Wednesday. Room 204, Brookings Hall. Credit I, VI,¹ XII, 2 units. \$12.50.

The practical application of principles and techniques of measurement; emphasis upon individual projects. Open to new students upon consent of the instructor.

¹ In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

***N 8-26. Educational Sociology.**

Professor Bernard

7:45-9:30. Wednesday. Room B, January Hall. Credit I, XII,
2 units. \$12.50.

The school as a social institution; the curriculum and social adjustment; extra-curricular activities; non-scholastic education; personality and the school; revision of educational aims and processes in the light of sociological criticism.

***N 8-X. Visual Instruction.**

Mrs. Rogers

7:45-9:30. Thursday. Room 228, Brookings Hall. Credit XII,
2 units. \$12.50.

An understanding of the value of visual aids as a vitalizing force in teaching and as a factor in developing a world-wide point of view. The manipulation of different types of projectors will be discussed and demonstrated.

***A 8-4. Educational Psychology.**

Assistant Professor Gribble or _____

2:30-4:00. Monday and Thursday. Room 109, Brookings Hall.
Credit I, XII, 3 units. \$18.75.

Equivalent to N 8-4, except that it is given in the late afternoon and carries 3 units of credit.

A 8-6. Character Education: Its Psychology and Principles.

Associate Professor Lentz

4:00-5:45. Monday. Room 203, Brookings Hall. Credit XII,
2 units. \$12.50.

Methods and materials of character education; discussion of concrete instances of individuals and groups of individuals. Prerequisite, N 8-4. Open to new students in the second semester.

A 8-10. Elementary Education.

Assistant Professor Gribble

4:00-5:45. Wednesday. Room 104, Brookings Hall. Credit I,
VI,¹ XII, 2 units. \$12.50.

A review of recent research in arithmetic, reading, health teaching, and the arts. New students are requested to consult with the instructor before registering.

A 8-18. Principles of Primary Education.

Miss Pickett

4:00-5:45. Tuesday. Room 104, Brookings Hall. Credit I, VI,¹
XII, 2 units. \$12.50.

Qualified students may be admitted to the second semester of this course. Prerequisite, N 8-4.

¹In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

N 31-16. Hygiene in the Schools.

Miss Schriver

For description, see page 36.

ENGINEERING**CIVIL ENGINEERING**

A statement of courses required for the Certificate in Structural Design may be obtained from the office of University College.

***N 50-12. Engineering Materials and Inspection.**

Assistant Professor Wheeler

7:30-9:30. Tuesday. Room 200, Cupples Hall I. Lectures and discussions.

7:30-10:15. Thursday. Engineering Laboratory. Credit XIIA, $3\frac{1}{2}$ units. \$27.00.

Classroom and laboratory study of the physical properties and mechanics of the more common engineering materials, including wood, iron, steel, brick, cement, and concrete; discussion of their proper uses as indicated by tests and as exemplified by standard specifications.

About half the time will be spent in the materials laboratory performing the more common tests. Prerequisite, Elementary Statics. Students who wish to fit themselves for inspectors only may be admitted to this course without the prerequisite, provided they can present evidence of satisfactory preparation or experience.

N 50-22. Principles of Steel Structures. Associate Professor Derby

7:30-10:15. Tuesday. Rooms 211 and 215, Cupples Hall I. Credit XIIA, $1\frac{1}{2}$ units. \$17.50.

Not regularly open to new students.

N 50-34. Design of Reinforced Concrete. Professor Sweetser

7:30-10:15. Monday. Room 215, Cupples Hall I. Credit XIIA, $1\frac{1}{2}$ units. \$20.00.

Not regularly open to new students.

N 55-22. Estimating and Contracting. Mr. Murphy

7:15-10:15. Wednesday. Room 9, Givens Hall. Credit XIIB, 2 units. \$15.00.

Accident prevention; Workmen's Compensation; lien laws; labor agreements; building and safety codes; jurisdictional disputes. New students may be admitted upon consent of the instructor.

ELECTRICAL ENGINEERING

A statement of courses required for the Certificate in Electrical Engineering may be obtained from the office of University College.

***N 52-2. Principles of Direct Current Machinery.** Mr. Webb

7:30-10:15. Monday. Room 200, Cupples Hall II, and Engineering Laboratory. Credit XIIA, $1\frac{1}{2}$ units. \$17.50.

Theory of direct current generators and motors of the series, shunt, and compound types, together with laboratory experiments involving practical testing and operation of these machines; development of rules for winding armatures. Prerequisite, Elements of Electrical Engineering.

N 52-4. Elements of Alternating Currents. Professor Hake

7:30-10:15. Tuesday. Room 200, Cupples Hall II, and Engineering Laboratory. Credit XIIA, $1\frac{1}{2}$ units. \$17.50.

Not regularly open to new students.

N 52-8. Electrical Machine Design. Associate Professor Glasgow

7:30-10:15. Thursday. Room 200, Cupples Hall II. Credit XIIA, $1\frac{1}{2}$ units. \$17.50.

Not regularly open to new students.

N 52-20. Radio Communication. Associate Professor Glasgow

8:00-9:50. Wednesday. Room 200, Cupples Hall II. Credit XIIB, 2 units. \$15.00.

Vacuum tube circuits employed in receivers and transmitters, including the theory and design of such circuits. Prerequisite, a knowledge of alternating currents and elementary vacuum tube theory. New students must obtain their permission to register from the instructor.

MECHANICAL ENGINEERING

A statement of the courses required for the Certificate in Heat Engineering and of those required for the Certificate in Machine Design may be had upon application from the office of University College.

In special cases, students who have had sufficient experience may be admitted to the following courses:

N 51-2. Elementary Applied Mechanics. Professor Berger

7:45-9:30. Monday. Room 114, Cupples Hall II. Credit XIIA, 2 units. \$15.00.

Prerequisite, two units in Elementary Applied Mechanics, or the equivalent.

N 51-6. Elementary Thermodynamics.

Associate Professor Tucker

7:45-9:30. Thursday. Room 114, Cupples Hall II. Credit XIIA, 2 units. \$15.00.

Prerequisites, Applied Mechanics and two units of Elementary Thermodynamics.

N 51-8. Machine Design.

Professor Berger

7:30-10:15. Tuesday. Room 114, Cupples Hall II. Credit XIIA, 1½ units. \$17.50.

Prerequisites, a working knowledge of Algebra and Trigonometry, and the first semester of Machine Design or the equivalent.

***N 51-16. Heat-Treatment of Iron and Steel.**

Mr. Kuenzel

7:30-10:15. Thursday. Room 102, Cupples Hall II. Credit XIIB, 1½ units. \$30.00.¹

Methods of hardening, drawing, annealing, and case-hardening; the iron-carbon diagram in its relation to heat-treatment; microstructure and interpretation of the same by use of the microscope. Lectures and laboratory.

ENGLISH

For related courses, see also under Literature, Public Speaking. For special and preparatory courses, see pages 32-33.

***N 11-1A. Composition and Rhetoric.**

7:45-9:30. Tuesday and Friday. Room 203, Brookings Hall. Credit I, II, III, XII, 4 units. \$25.00.

Study of the principles of rhetoric and of the forms of discourse; themes at stated intervals; conferences with the instructor; collateral reading. Open to those who have had a standard high school course in English, or the equivalent.

¹ The tuition fee for this course will be graded: \$30.00 if there are eight students; \$25.00, if ten; and \$20.00, if twelve.

N 11-2. Composition and Rhetoric (Continuation of N 11-1).

Assistant Professor Jelinek, Mr. Jensen, Mr. Schmitz, Mrs. Jones

7:45-9:30. Tuesday. Rooms 104, 206, 208, 228, Brookings Hall.

Credit I, II, III, XII, 2 units. \$12.50.

This course, together with N 11-1, is the full equivalent of the regular freshman college course in English.

A 11-2. Composition and Rhetoric (Continuation of A 11-1).

Mrs. Cook

3:00-4:30. Monday and Thursday. Room 100, Brookings Hall.

Credit I, II, III, XII, 3 units. \$18.75.

This course, together with A 11-1, is the full equivalent of the regular freshman college course in English.

N 11-4. Advanced English Composition. Types of Writing.

Assistant Professor Stout

7:45-9:30. Tuesday. Room 201, Brookings Hall. Credit I, XII,

2 units. \$12.50.

New students desiring to enrol in this course should consult the instructor before registering.

N 11-6. The Short Story.

Associate Professor Webster

7:45-9:30. Tuesday. Room 109, Brookings Hall. Credit I, XII,

2 units. \$15.00.

Students desiring to enrol in a course in the Short Story may be admitted to N 11-4 or N 11-6, depending upon their previous experience in writing. All such students should consult Professor Webster before registering.

***N 11-12. General Introduction to English Literature.**

Assistant Professor Smith

7:45-9:30. Wednesday. Room 109, Brookings Hall. Credit I,

XII, 2 units. \$12.50.

English literature from the end of the Sixteenth Century to the Romantic Movement. Prerequisite, N 11-1, 2, or the equivalent.

Students may complete the work of English 11, required of sophomores in the College of Liberal Arts, by taking in addition to this course, N 11-11 and N 11-13 in the first semester of 1933-34.

N 11-20. Contemporary British and American Literature.

Associate Professor Parks

7:45-9:30. Thursday. Room 108, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Consideration of verse writers such as Masfield, Yeats, Robinson, the imagist school, and post-war verse; problems of American creative expression, and the parallel in the literary renaissance in Ireland; the movement of ideas in literature.

N 11-22. Twentieth Century Drama in England.

Assistant Professor Buchan

7:45-9:30. Monday. Room 204, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Discussion of the English dramatists, such as Granville Barker, St. John Ervine, Somerset Maugham, Noel Coward. It will presuppose familiarity with the work of Shaw, Galsworthy, and the Irish dramatists dealt with in the first semester.

***N 11-24. The Novel in England from Defoe to Hardy.**

Professor Jones

7:45-9:30. Wednesday. Room 108, Brookings Hall. Credit I, VI,¹ XII, 2 units. \$12.50.

A critical study of a number of representative novels by the chief English novelists, and a more rapid reading of others. Prerequisite for credit, N11-11, 12, 13.

***N 11-28. Victorian Poetry.**

Professor Jones

7:45-9:30. Tuesday. Room 106, Brookings Hall. Credit I, XII, 2 units. \$12.50.

A study of Tennyson, Browning, Arnold, and other Victorian poets against the background of their age. Prerequisite for credit, N 11-11, 12, 13.

N 11-26. Shakespearean Comedy and History.

Professor Mackenzie

7:45-9:30. Tuesday. Room 229, Brookings Hall. Credit I, VI,¹ XII, 2 units. \$12.50.

Two plays will be considered. New students may be admitted upon consent of Professor Mackenzie.

¹In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

SPECIAL COURSES

N 11-34. The Study of Expressive Speech. Joan Patterson

7:45-9:30. Monday. Room 108, Brookings Hall. Credit XII,¹
2 units. \$12.50.

Study and practice for the purpose of developing a well modulated speaking and reading voice. Prerequisite for credit, a knowledge of proper breathing, production of sound, and articulation.

N 11-36. Recreational Dramatics. Miss Rosenthal

7:45-9:30. Thursday. January Court Room. Credit XII,¹
2 units. \$12.50.²

Practical work in acting through participation in a variety of one-act plays. Open to new students with the consent of the instructor.

N 11-40. The Art of Story Telling. Mrs. Clifford

7:45-9:30. Tuesday. Room 220, Brookings Hall. Credit XII,¹
2 units. \$12.50.

Classification of myths, folklore, legends, fables, and fairy-tales; gradation, vocabulary, and chart work. Platform work will be featured.

A 11-40. The Art of Story Telling. Mrs. Clifford

2:00-3:45. Tuesday. Room 204, Brookings Hall. Credit XII,¹
2 units. \$12.50.

Identical with N 11-40, except that it stresses children's literature.

N 11-W2. Advanced English for Educated Foreigners. Miss Sante

7:45-9:30. Thursday. Room 221, Brookings Hall. Credit
XIIB, 2 units. \$12.50.

Students interested in this course should consult Miss Sante.

N 11-52. Phonetics—Spoken English. Mr. Young

7:45-9:30. Thursday. Room 201, Brookings Hall. Credit XII,¹
2 units. \$12.50.

Not regularly open to new students.

¹ These courses may be elected by candidates for the degree of B.S. in Education provided the student is preparing to teach in either the primary or the elementary grades.

² An additional charge of \$1.00 is made for incidental materials.

BUSINESS COURSES**N 11-By. Business English.**

Mr. Detjen

7:45-9:30. Monday. Room 100, Brookings Hall. Credit XIIB, 2 units. \$12.50.

This course corresponds to English N 11-B2, except that in composition emphasis will be placed upon the needs of business.

***N 11-D. Commercial Correspondence for Accountants.**

Mr. McCarthy

7:45-9:30. Tuesday. Room 209, Brookings Hall. Credit XIAA, 2 units. \$15.00.

A short review of composition, punctuation, spelling, capitals, italics, etc.; the form and construction of letters and reports; the fundamentals underlying routine letters, such as collection, credit, and complaint letters.

N 11-F. Business Letters in Their Fundamental Aspects.

Mr. Frailey and Mr. McCarthy

7:45-9:30. Friday. Room 108, Brookings Hall. Credit XIIB, 2 units. \$15.00.

Emphasis upon letter atmosphere. Prerequisite, two years of high school English or the equivalent.

PREPARATORY COURSES**N 11-B2. The Fundamentals of English Composition.**

Mr. Morrow or _____

7:45-9:30. Tuesday. Room 108, Brookings Hall. Credit E, $\frac{2}{3}$ unit. \$12.50.

Exposition and argumentation as types of composition, with study and practice in sentence structure and paragraphing. Constant attention to grammar review.

***N 11-B3. The Fundamentals of English Composition.**

Mr. Morrow

7:45-9:30. Tuesday and Friday. Room 200, Brookings Hall. Credit E, $1\frac{1}{3}$ units. \$25.00.

This course covers in one semester the entire ground of N 11-B1, 2 by meeting twice a week.

N 11-C2. Types of Modern Literature.

Miss Johnson

7:45-9:30. Wednesday. Room 104, Brookings Hall. Credit E, $\frac{2}{3}$ unit. \$12.50.

A survey of the essay, drama, and poetry, with emphasis upon modern developments and tendencies. Prerequisite, two years of high school English. Open to new students.

FRENCH

N 12-2. French, Part I. Assistant Professor Faure
7:45-9:30. Thursday. Room 104, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, one year of high school or two units of college French.

N 12-4. French, Part II. Mrs. Detjen
7:45-9:30. Friday. Room 109, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, two years of high school or six units of college French.

N 12-6. French, Part III. Associate Professor Brown
7:45-9:30. Friday. Room 209, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, three years of high school or ten units of college French.

N 12-Y. Advanced Oral French. Professor Douay
7:45-9:30. Thursday. Room 209, Brookings Hall. Credit XIIB, 2 units. \$12.50.

This course, conducted entirely in French, will consist of discussion and comments on French life and literature. It will develop the power of French conversation. Properly qualified new students may be admitted.

A 12-2. Elementary French. Mrs. Elman
3:30-5:00. Tuesday and Friday. Room 209, Brookings Hall. Credit I, XII, 3 units. \$18.75.

Prerequisite, one year of high school or three units of college French.

GEOGRAPHY AND GEOLOGY

The following are full year courses, but new students may be admitted upon consent of the instructor in charge.

N 13-2. Geologic Interpretations. Professor McCourt
7:45-9:30. Monday. Room 112, Wilson Hall. Credit I, XII, 2 units. \$12.50.

N 13-4. Laboratory in Geology. Mr. Ray
7:30-10:00. Wednesday. Room 103, Wilson Hall. Credit I, XII, 1 unit. \$15.00.

N 13-18. World Geography. Associate Professor Thomas
7:45-9:30. Wednesday. Room 215, Wilson Hall. Credit XII,
2 units. \$12.50.

The geography of Europe, Asia, and Africa.

GERMAN

N 14-2. German, Part I. Associate Professor Jente
7:45-9:30. Monday. Room 104, Brookings Hall. Credit I, XII,
2 units. \$12.50.

Prerequisite, one year of high school or two units of college German.

N 14-4. German, Part II. Assistant Professor Hofacker
7:45-9:30. Wednesday. Room 206, Brookings Hall. Credit I,
XII, 2 units. \$12.50.

Prerequisite, two years of high school or six units of college German.

GREEK

N 15-2. Elementary Greek. Professor Duncan
7:45-9:30. Wednesday. Room 208, Brookings Hall. Credit I,
XII, 2 units. \$12.50.

Prerequisite, two units of college Greek.

HISTORY

***N 16-1B. The History of Western Europe, Part II.**
Professor McFayden
7:45-9:30. Tuesday. Room 230, Brookings Hall. Credit I, XII,
2 units. \$12.50.

European History from 1485 to 1815. Open to new students.

***N 16-1D. The Great War and After.** Associate Professor Bieber
7:45-9:30. Thursday. Room 230, Brookings Hall. Credit I,
XII, 2 units. \$12.50.

The military history of the War in outline, the peace treaties, the reorganization of Europe, and the main problems confronting the principal countries of Europe. Prerequisite for credit, N 16-1A, B, C, or the equivalent.

***N 16-4B. History of the United States.** Professor Marshall
7:45-9:30. Wednesday. Room 230, Brookings Hall. Credit I,
XII, 2 units. \$12.50.

The history of the United States from the beginning of Jackson's administration (1829) to the present day. Prerequisite for A.B. credit, History of Western Europe, N 16-1A, B, C; may be taken as a first course by candidates for the B.S. in Education.

N 16-17. Problems of Modern Imperialism. Professor Usher
7:45-9:30. Monday. Room 229, Brookings Hall. Credit I, VI,¹
XII, 2 units. \$12.50.

A study of Africa, South America, the Mediterranean, and the World War. Prerequisite, twelve hours of history. New students may be admitted as auditors only.

HOME ECONOMICS

***N 35-22A. Family Health (Nutrition).** Dr. Hetler
7:45-9:30. Monday. Room 207, Duncker Hall. Credit X, XII,²
2 units. \$12.50.

Nutrition as it relates to family health will be the central thought in discussions in this course. A study of budgets will be included. Primarily for public health nurses, but also open to homemakers interested in the subject.

N 75-8. Clothing Design. Miss Recht
7:45-9:30. Tuesday. School of Fine Arts. Credit XII,²
2 units. \$15.00.

Color; pattern drafting; costumes drafted and made from original design. Open to new students.

HYGIENE

***N 31-16. Hygiene in the Schools.** Miss Schriver
7:45-9:30. Monday. Women's Building. Credit XII, 2 units.
\$12.50.

The establishment of such health habits as exercise, diet, rest, clothing, posture. Lectures, discussions, readings, planning of lessons, etc., suitable for the teaching of Hygiene and the adaptation of materials will be emphasized. Special methods and the correlation of Hygiene with other school subjects will be stressed.

INTERIOR DECORATION

A list of courses required for the Certificate in Interior Decoration may be had upon request from the office of University College.

N 6-4. Interior Decoration (Lecture). Assistant Professor Valenti
7:45-9:30. Monday. Room 113, Givens Hall. Credit XIA,
2 units. \$15.00.

A study of the decorative treatments of period interiors and their application to the modern home. Open to new students upon consent of the instructor.

¹ In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

² These courses may be elected by candidates for the degree of B.S. in Education provided the student is preparing to teach in either the primary or the elementary grades.

***N 6-14. Shades and Shadows: Perspective.** Miss Steinmesch
7:30-9:45. Wednesday. Room 8, Givens Hall. Credit XIIA,
1½ units. \$15.00.

Geometrical construction of shades and shadows and the use of perspective as applied to interiors and furnishings.

N 6-20. Elementary Design. Miss Steinmesch
7:30-9:45. Wednesday. Room 8, Givens Hall. Credit XIIA,
1½ units. \$15.00.

Problems in elementary design and composition; plans, elevations, and perspective sketches in water color of interiors showing furniture arrangement and furnishings. Open to new students upon consent of the instructor.

ITALIAN

N 27-22. Italian for Beginners. Assistant Professor Giachino
7:45-9:30. Friday. Room 106, Brookings Hall. Credit I, XII,
2 units. \$12.50.

Prerequisite, two units of college Italian.

JOURNALISM

Complete information concerning the curriculum leading to the degree of Bachelor of Science in Journalism may be had upon request from the office of University College.

N 11-42. The History and Principles of Journalism. Mr. Willier
7:45-9:30. Wednesday. Room 100, Brookings Hall. Credit I,
XII, 2 units. \$15.00.

New students may be admitted only upon consent of the instructor.

A 11-46. Journalism Laboratory. Mr. Willier
2:00-3:00. Tuesday. Room 109, Wilson Hall. Laboratory hours
to be arranged. Credit XII, 3 units. \$25.00.

New students may be admitted only upon consent of the instructor.

***N 11-48. Writing for Trade and Professional Journals.**
Mr. Willier
7:45-9:30. Monday. Room 209, Brookings Hall. Credit XIIB,
2 units. \$15.00.

A study of the historical background of present day journals, and of types of articles printed in these publications. The technique of writing is examined and practice is given in actual writing for some specific publications.

LATIN**N 19-2. Latin, Part I.**

Mr. Duffy

7:45-9:30. Thursday. Room 200, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, one year of high school or two units of college Latin.

N 19-4. Latin, Part II.

Mr. Ryan

7:45-9:30. Monday. Room 200, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, two years of high school or six units of college Latin.

N 19-6. Latin, Part III.

Mr. Ryan

7:45-9:30. Wednesday. Room 200, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, three years of high school or ten units of college Latin.

LAW***N 70-42. Business Law II.**

Professor Cullen

7:45-9:30. Wednesday. Room B-2, January Hall. Credit XIIA, 2 units. \$15.00.

Negotiable instruments, sales, partnerships, and corporations—actual business transactions.

N 70-52. Engineering Aspects of Patent Law.

Assistant Professor Koenig

7:45-9:30. Thursday. Room 203, Cupples Hall II. Credit XIIB, 2 units. \$15.00.

This course runs through the year but is open to properly qualified students.

LITERATURE***N 32-20. Literature and the Social Motion.**

Professor Heller

8:00-9:00. Monday. Room 109, Brookings Hall. Credit I, XII, 1 unit. \$12.50.

The strife of forces competing for the moral, esthetic, and economic control of society is an important incentive to creative writing, while, conversely, literature of the greater stamp is a powerful factor in the orientation and direction of the public mind. This course attempts to account for the main trends of modern letters, in form as well as in matter and ideas, through the artistic aspirations and social ethics of the leaders and the "schools".

MATHEMATICS***N 20-A1. Algebra I.**

Mr. Brick

7:45-9:30. Thursday. Room 223, Brookings Hall. Credit E,
 $\frac{2}{3}$ unit. \$12.50.

This course is intended for those who have never studied algebra or for those who wish to review the subject from the beginning through quadratic equations. Not given for less than fifteen students.

N 20-B. Algebra I.

Associate Professor Dunkel

7:45-9:30. Wednesday. Room 221, Brookings Hall. Credit E,
 $\frac{2}{3}$ unit. \$12.50.

Prerequisite, one semester of algebra.

***N 20-F1. Plane Geometry.**

Assistant Professor Stephens

7:45-9:30. Monday. Room 200, Cupples Hall I. Credit E,
 $\frac{2}{3}$ unit. \$12.50.

Equivalent to one year of high school geometry. Requires no previous mathematical preparation.

***N 20-D1. Solid Geometry.**

Assistant Professor Middlemiss

7:45-9:30. Monday. Room 218, Cupples Hall II. Credit E,
 $\frac{2}{3}$ unit. \$15.00.

Prerequisite, one year of plane geometry.

***N 20-1A. College Algebra.**

Associate Professor Rider

7:45-9:30. Thursday. Room 229, Brookings Hall. Credit I, II,
III, XII, 2 units. \$12.50.

Exponents, linear and quadratic equations, progressions, permutations and combinations, the binomial theorem, logarithms, variations. Prerequisite, Intermediate Algebra.

Students desiring to receive credit in the Schools of Engineering and Architecture will register for N 20-1E, will be assigned additional work, receive $2\frac{1}{2}$ units of credit, and pay a tuition of \$15.50.

***N 20-3A. Trigonometry.**

Associate Professor Bubb

7:45-9:30. Friday. Room 221, Brookings Hall. Credit I, II,
III, XII, 2 units. \$12.50.

Trigonometric functions; derivation of important formulas; use of logarithms; solution of right and oblique triangles; applications to problems in surveying, mechanics, etc. Prerequisite, at least Algebra I and Plane Geometry.

Students desiring to receive credit in the Schools of Engineering and Architecture will register for N 20-3E, will be assigned additional work, receive $2\frac{1}{2}$ units of credit, and pay a tuition of \$15.50.

***N 20-5A. Analytic Geometry I.** Associate Professor Bubb

7:45-9:30. Wednesday. Room 215, Cupples Hall I. Credit I, II, III, XII, 2 units. \$12.50.

The fundamental principles underlying the relations between geometry and algebra; methods of analytic geometry as exemplified principally by a study of conic sections. Prerequisite, Trigonometry.

N 20-6. Analytic Geometry II. Assistant Professor Grummann

7:45-9:30. Tuesday. Room 203, Cupples Hall II. Credit I, II, III, XII, 2 units. \$12.50.

Review of analytic geometry of conic sections; the power function, the exponential and logarithmic functions, and the periodic trigonometric functions; elements of solid analytics. Prerequisite, N 20-5 or its equivalent.

N 20-8. Calculus. Associate Professor Dunkel

7:45-9:30. Friday. Room 223, Brookings Hall. Credit I, II, III, XII, 2 units. \$12.50.

Prerequisite, two units of college calculus.

N 20-10. Elementary Differential Equations.

Assistant Professor Grummann

7:45-9:30. Monday. Room 203, Cupples Hall II. Credit II, XII, 2 units. \$12.50.

The study of linear differential equations. Students who have completed differential and integral calculus will be admitted without having had the first semester of this course.

***N 20-12. Business Mathematics.** Associate Professor Rider

7:45-9:30. Monday. Room 223, Brookings Hall. Credit XIIA, 2 units. \$15.00.

Interest, discount, sinking funds, bond valuation, depreciation, and mathematics of life insurance. Prerequisite, Algebra I.

MUSIC

The following courses run through the year and are given by Dr. Ernest Kroeger in his studio at Boyle Avenue and Olive Street. Properly qualified new students may be admitted at this time to A 24-1 and A 24-7. Such persons should consult Dr. Kroeger in his studio.

A 24-1. Musical Cultural Course. Dr. Kroeger

4:00-5:15. Tuesday. Musical Art Building. Credit XII, 1 unit. \$7.50.

A 24-3. Elementary Harmony. Dr. Kroeger
5:15-6:05. Monday. Credit XII, 1 unit. \$10.00.

A 24-7. Musical Aesthetics. Dr. Kroeger
4:00-5:15. Monday. Credit XII, 1 unit. \$7.50.

NURSING

***N 35-12. Principles of Teaching Applied to Nursing.** Miss Worrell

7:45-9:30. Monday. School of Nursing, 416 South Kingshighway. Credit X, 2 units. \$12.50.

Lectures, recitations, and group discussion designed to present the general problem of teaching in nursing schools.

***N 35-16. Principles of Public Health Nursing.** Miss Heisler

7:45-9:30. Wednesday. School of Nursing, 416 South Kingshighway. Credit X, 2 units. \$12.50.

A brief outline of the history and development of public health nursing; the organization, program, principles, and problems in public health nursing; the relationship of public health nursing groups to the other community welfare groups.

***N 35-22A. Family Health (Nutrition).** Dr. Hetler

7:45-9:30. Monday. Room 207, Duncker Hall. Credit X, XII,¹ 2 units. \$12.50.

Nutrition as it relates to family health will be the central thought in discussions in this course. A study of budgets will be included. Primarily for public health nurses, but also open to homemakers interested in the subject.

PHILOSOPHY

N 22-12. Ancient and Modern Conceptions of Man and the World.

Associate Professor Chambers

7:45-9:30. Monday. Room 106, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Prerequisite, two units in philosophy.

***N 22-14. The Philosophy of Religion.** Professor Cory

7:45-9:30. Thursday. Room 204, Brookings Hall. Credit I, XII, 2 units. \$12.50.

The meaning of religion from the point of view of modern thought and its relation to evolutionary science and the social order; the essential elements of religion and their functions in man's life as a whole. Prerequisite for credit, six units in philosophy.

¹ This course may be elected by candidates for the degree of B.S. in Education provided the student is preparing to teach in either the primary or the elementary grades.

PHYSICS

N 23-2. Mechanics, Heat, and Sound.

Associate Professor Hagenow

7:15-10:15. Thursday. Room 100, Eads Hall. Credit I, XII,
1½ units. \$15.00.

Fluids in motion; molecular and atomic theory of matter; elasticity; heat. Prerequisites, algebra and plane geometry.

POLITICAL SCIENCE

N 25-2. American Government.

Assistant Professor Norton

7:45-9:30. Monday. Room 206, Brookings Hall. Credit I, XII,
2 units. \$12.50.

The government of the United States in actual operation; legislative, executive, judicial departments; administrative organization and practices; relation of government to economic and social conditions; territories and dependencies; foreign affairs of the United States. Open to new students.

N 25-4. American State Government.

Assistant Professor McKenzie

7:45-9:30. Tuesday. Room 105, Duncker Hall. Credit I, XII,
2 units. \$12.50.

County and township government with emphasis upon the historical development and the problems confronting these units of local government today. Special emphasis will be placed upon the reorganization of local government in Missouri during the coming session of the legislature. Open to new students.

***N 25-5. American City Government.**

Assistant Professor McKenzie

7:45-9:30. Wednesday. Room 203, Brookings Hall. Credit I,
XII, 2 units. \$12.50.

The growth of cities; the development of the different types of city government; municipal functions and problems. This course with N 25-3, 4 is the equivalent of Political Science 3 in the College of Liberal Arts.

PSYCHOLOGY

***N 9-1A. General Psychology.**

Mr. Hawthorne or ———

7:45-9:30. Monday. Room 100, Cupples Hall I. Credit I, XII,
2 units. \$12.50.

A careful survey of the principles of human psychology; the fundamentals of human behavior; the principles and data which have most significance for practical affairs and the conduct of life in general.

***N 9-2. Applied Psychology.** Assistant Professor Bunch
7:45-9:30. Thursday. Room 100, Cupples Hall I. Credit I, XII, 2 units. \$12.50.

The application of the principles of psychology to the conditions of everyday life; personal efficiency, the influence and control of human behavior, mental health, education, religion, and business.

A 9-2. General Psychology. Mr. Hawthorne
3:30-5:20. Wednesday. Room 101, Cupples Hall I. Credit I, XII, 2 units. \$12.50.

Practical applications of psychology to industry, law, commerce, medicine, education, etc. Prerequisite, two units of psychology.

***N 9-8. The Measurement of Intelligence.** Mr. Hawthorne
7:45-9:30. Thursday. Room 109, Brookings Hall. Credit I, XII, 2 units. \$12.50.

An intensive inquiry into the current methods of measuring the intelligence of infants, pre-school children, youths, and adults. Practice in the administration and scoring of tests. Prerequisite, six units in psychology.

N 9-10. Mental Hygiene. Dr. Meltzer
7:45-9:30. Monday. Room 220, Brookings Hall. Credit I, XII, 2 units. \$12.50.

Social aspects of mental health problems in modern society; mental hygiene of childhood and adolescence; mental hygiene in education, social work, and industry; delinquency as a mental problem. Prerequisite for credit, two units in Mental Hygiene.

***N 9-12. Abnormal Psychology.** Assistant Professor Bunch
7:45-9:30. Wednesday. Room 220, Brookings Hall. Credit I, VI,¹ XII, 2 units. \$12.50.

The principles of abnormal psychology; the psychology of abnormal forms of human behavior; the theory and technique of psycho-analysis. Prerequisite, six units in psychology.

N 9-14. The Psychology of Personality. Dr. Meltzer
7:45-9:30. Friday. Room 204, Brookings Hall. Credit XIIB, 2 units. \$12.50.

A consideration of the genesis and development of personality differences, and the treatment of personality deviations in children and adults.

PUBLIC SPEAKING

For courses in Dramatics, Story Telling, Phonetics, see under English, page 32.

¹ In addition to the prerequisite stated, registrants must have had at least two years of acceptable college work.

N 33-2. Introductory Public Speaking. Mr. Young

7:45-9:30. Wednesday. Room 228, Brookings Hall. Credit I, XII, 2 units. \$12.50.

New students must obtain their permission to register from the instructor.

***N 33-3. Public Speaking, Part III.** Mr. Young or _____

7:45-9:30. Tuesday. Room 204, Brookings Hall. Credit I, XII, 2 units. \$12.50.

A supplement to N 33-2, open to all students who have taken or are taking N 33-2, and especially designed for pre-legal students. Methods of research, the analysis of speech models, practice in written speeches, and a special study of delivery.

RADIO COMMUNICATION**N 52-20. Radio Communication.** Associate Professor Glasgow

For description, see page 28.

REAL ESTATE

Complete information concerning the curriculum leading to the Certificate in Real Estate may be had upon application from the office of University College.

N 41-2. Real Estate Fundamentals. Mr. Slonim

7:45-9:30. Wednesday. Room B-1, January Hall. Credit XIIA, 2 units. \$15.00.

Real estate financing, selling, advertising, city planning, condemnation, taxation, housing, etc.

***N 41-46. Real Estate Appraisal.** Mr. Slonim

7:45-9:30. Tuesday. Room 101, Duncker Hall. Credit XIIA, 2 units. \$15.00.

Special emphasis upon the economic and social factors entering into the valuation of real property; methods of appraising all types of income property, and the gathering of data required. Students may prepare actual appraisals of local properties for discussion in class.

***N 70-68. Real Estate Title and Conveyancing, Part I.**

Mr. McCune Gill

7:45-9:30. Friday. Room C, January Hall. Credit XIIA, 2 units. \$15.00.

The modes of acquiring the various interests in land; the form and content of deeds, including restrictive and other covenants; the form and content of mortgages; foreclosure and other remedies; other liens on real property; forms and covenants in leases and the relation of the landlord and tenant; title by judicial decree, descent, and devise; insurance and tax problems affecting title.

RUSSIAN**N 28-2. Russian.**

Mr. Baron

7:45-9:30. Wednesday. Room 201, Brookings Hall. Credit XIIB, 2 units. \$12.50.

Prerequisite, two units in Russian.

SALESMANSHIP

A list of courses required for the Certificate in Sales Management may be had upon request from the office of University College.

***N 47-2. Principles of Salesmanship II.**

Mr. J. Leslie Mahl

7:45-9:30. Monday. Room 228, Brookings Hall. Credit XIIA, 2 units. \$15.00.

Consideration of the problem of distribution; sales demonstrations by well-known firms; sales demonstrations by members of the class; analysis and application of effective sales methods; selecting, training, directing, and stimulating salesmen.

SECRETARIAL STUDIES

A list of courses required for the Certificate in Secretarial Studies may be had upon application from the office of University College.

SOCIOLOGY AND SOCIAL WORK**N 26-2. Introduction to Sociology.**

Professor Bodenhafer

7:45-9:30. Thursday. Room 208, Brookings Hall. Credit I, XII, 2 units. \$12.50.

This course deals largely with the family and certain social problems. Prerequisite for credit, two units in sociology.

N 26-10. Social Psychology.

Professor Bernard

7:45-9:30. Monday. Room 221, Brookings Hall. Credit I, IV, VI,¹ 2 units. \$12.50.

Attitudes, their modification and development under social pressures; the interactions of individuals and groups. Prerequisite for credit, N 26-2, or N 9-2, and some work in social psychology.

***N 26-30. The Family.**

Professor Queen

7:45-9:30. Thursday. Room 213, Cupples Hall I. Credit I, IV, XII, 2 units. \$12.50.

The family as a social group and as an institution, personal relationships, folkways and mores involved. Prerequisite, Sociology I. The course is open also to mature persons as auditors.

¹In addition to the prerequisites stated, registrants must have had at least two years of acceptable college work.

***N 8-26. Educational Sociology.**

Professor Bernard

For description, see page 26.

A 26-4. Health Aspects of Social Work.

Assistant Professor Ferguson

3:45-4:45. Monday and Wednesday. 4567 Scott Avenue.
Credit XIIB, 2 units. \$12.50.

Intended primarily for students and workers in Occupational Therapy. New students must obtain the permission of the instructor to register.

***A 26-8. History of Social Welfare.**

Professor Bruno

4:30-6:00. Monday and Wednesday. 1528 Locust Street.
Credit I, IV, XII, 3 units. \$18.75.

The story of public and private social work from the passage of the English Poor Law in 1601 to the present time. Prerequisite, A 26-7, The Socially Inadequate.

A 26-14. Introductory Social Case Work.

Assistant Professor Feder

4:30-6:00. Tuesday and Thursday. 1528 Locust Street. Credit I, IV, VI,¹ XII, 3 units. \$18.75.

Prerequisites for credit, A 26-7 and A 26-8. Students not registered in the first semester must consult the instructor before enrolling.

A 26-22. Elementary Field Work.

Assistant Professor Feder

By appointment. 1528 Locust Street. Credit IV, VI,¹ 3 units. \$18.75.

Approval of the instructor required for admission. Prerequisite, A 26-14, or concurrent registration in it.

***A 26-24. Legal Protection of the Child.**

Associate Professor Burke

4:30-6:00. Tuesday and Thursday. 1528 Locust Street. Credit IV, VI,¹ XII, 3 units. \$18.75.

A study of legislation, judicial procedure, and penology as related to the child. Prerequisite, six units in Social Work.

¹ In addition to the prerequisites stated, registrants must have had at least two years of acceptable college work.

SPANISH**Part I.**

Assistant Professor Eoff

Thursday. Room 100, Brookings Hall. Credit I,
\$12.50.

One year of high school or two units of college Spanish.

Part II.

Mr. King

Monday. Room 208, Brookings Hall. Credit I, XII,

Two years of high school or six units of college Spanish.

Part III.

Mr. King

Thursday. Room 206, Brookings Hall. Credit I,
Units. \$12.50 or \$18.75.Those desiring to enrol in this course must consult the instructor
regarding.**ZOOLOGY****General Biology.**

Mr. Kerr

Friday. Monday. Room 213, Rebstock Hall. Credit I, XII,
Units. \$15.00.¹

Regularly open to new students.

Comparative Embryology of Vertebrates.

Mr. Kerr

Friday. Monday. Room 215, Rebstock Hall. Credit I, XII,
Units. \$15.00.¹

Regularly open to new students.

The Theory of Evolution.

Professor Hanson

9:30. Wednesday. Room 213, Rebstock Hall. Credit I,
Units. \$12.50.Evolutionary theories of Darwin, Lamarck, de Vries, and others; the
evidence upon which the evolutionary idea, the evidence upon which the doctrine of evo-
lution, the evolution of man, and the future of evolution.**General Physiology.**

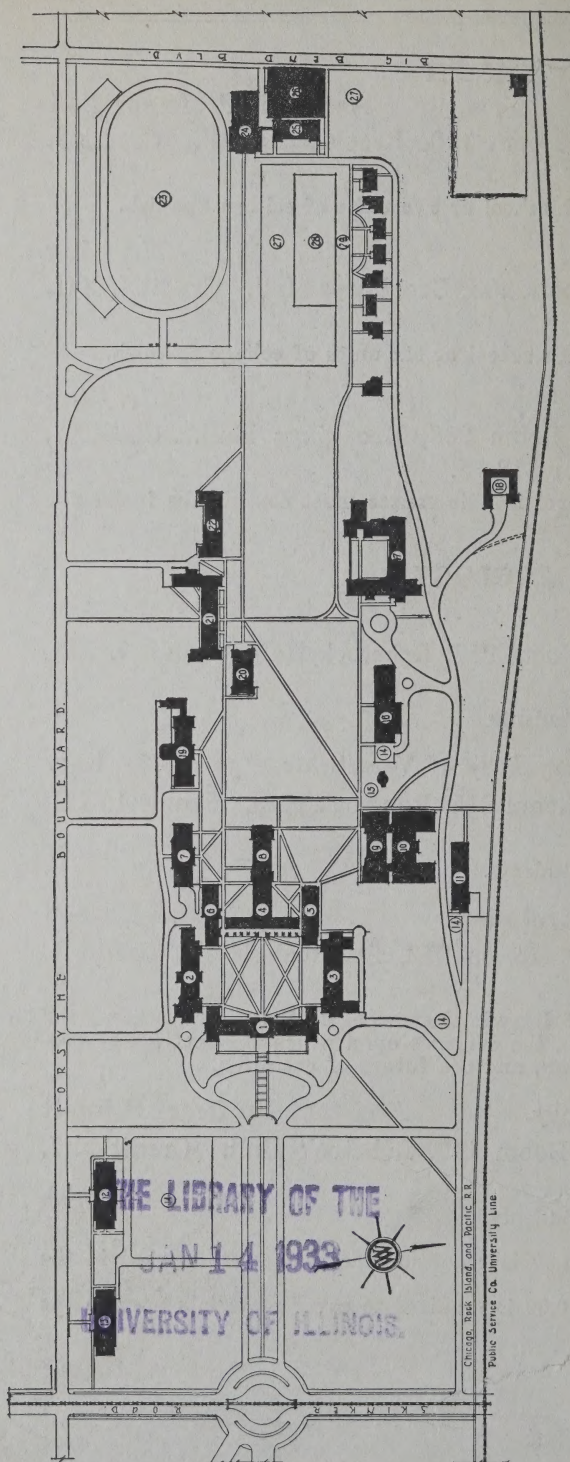
Assistant Professor Schmitt

Friday. Monday. Room 117, Rebstock Hall. Credit XII,
Units. \$15.00.²

Not regularly open to new students.

In addition a deposit of \$4.00 is required to cover materials used in the
laboratory.In addition a deposit of \$10.00 is required to cover materials used in the
laboratory.

University, containing the Schools of Liberal Arts, the Schools of Engineering, Law, Business and Public Administration, Fine Arts, Graduate College, and the Summer School.



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- 18—Maintenance
- 19—Charles Reh
- 20—Graham Me
- 21—John F. Lee
- 22—Liggett Hall
- 23—Francis Field
- 24—David R. Francis
- 25—Wilson Swimming
- 26—Field House
- 27—Automobile Parkin
- 28—Tennis Courts
- 29—Fraternity Houses